Lat 40.21799 Lon -122.27612

United States Department of Agriculture | **Forest Service** | **Lassen National Forest** | **55 So. Sacramento Street Susanville, CA 96130 916-257-2151 VOICE 916-257-6244 TTY**

Reply To: 3410

Date: February 8, 1996

Subject: Douglas-fir Tussock Moth Pheromone Detection Survey - 1995 Report (NE96-3)

To: Forest Supervisors: Eldorado, Inyo, Lassen, Plumas, Modoc, Sierra, Stanislaus, Sequoia and Tahoe National Forests and Lake Tahoe Basin Management Unit

Enclosed are the results of the 1995 cooperative Douglas-fir tussock moth (DFTM) pheromone detection survey. Average trap catches for 1995 showed increases for several plots compared to 1994 catches (Table 1.). Data were collected for 158 plots (5 traps/plot) this year. Of these, 125 plots (79%) had fewer than an average of 25 males per trap, 33 plots (21%) averaged 25 or more moths per trap. For some plots this is a continued upward trend which began in 1993. Consistent increases in trap catches were noted in monitoring plots on the Eldorado and Stanislaus National Forest, and in two plots on the Mariposa Ranger District, Sierra National Forest. Increase were also noted in the Schneider Creek drainage, Quincy Ranger District, Plumas National Forest, one plot each on the Nevada City and Downieville Ranger Districts, Tahoe National Forest, plots on the Eagle Lake Ranger District, Lassen National Forest, and those on the Warner Mountain Ranger District, Modoc National Forest and around the Goose Lake area, Modoc. Co. Similar increases preceeded the last outbreak in California (1987-1989) by two to three years. Based on these results, egg mass and larval surveys are planned in areas with indications of increasing populations.

Sufficient trapping materials have been ordered for the detection trapping plots for 1996. They will be distributed to cooperators in June or July of this year. Please direct any questions to Sheri Smith (916-257-2151) or John Wenz at (209-532-3671).

John Neisess, FPM Program Leader
State and Private Forestry

Enclosure

cc: Jesse Rios, CDF&FP, Sacramento
Don Owen, CDF&FP, Redding
Dan Marlatt, BLM, Susanville
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FPM - Shasta-Trinity NF
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Addresses for CC's

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Table 1.

NUMBER OF DOUGLAS-FIR TUSSOCK MOTH PHEROMONE DETECTION SURVEY PLOTS BY TRAP CATCH 1979-1995

Year	Total Number Plots	NUMBER OF PLOTS WITH AN AVERAGE MOTH CATCH PER TRAP OF:													
		0<10	10<20	20<25	25<30	30<35	35<40	40<45	45<50	50<55	55<60	60<65	65<70	70<75	75+
1979	102	97	2	1	1	0	1	0	0	0	0	0	0	0	0
	100%	95%	2%	1%	1%		1%								
1980	99	99	0	0	0	0	0	0	0	0	0	0	0	0	0
	100%	100%													
1981	93	78	10	4	1	0	0	0	0	0	0	0	0	0	0
	100%	84%	10%	4%	2%										
1982	95	93	1	0	1	0	0	0	0	0	0	0	0	0	0
	100%	98%	1%		1%										
1983	98	87	6	1	1	3	0	0	0	0	0	0	0	0	0
	100%	89%	6%	1%	1%	3%									
1984	111	51	18	11	5	7	8	4	3	4	0	0	0	0	0
	100%	46%	16%	10%	4%	6%	7%	4%	3%	4%					
1985	105	58	14	4	7	6	5	1	2	4	1	2	0	1	0
	100%	55%	13%	4%	6%	6%	5%	1%	2%	4%	1%	2%		1%	
1986	107	64	16	4	8	6	1	3	0	1	0	1	1	1	1
	100%	60%	15%	3%	7%	6%	1%	3%		1%		1%	1%	1%	1%
1987	108	80	15	4	2	1	1	3	0	1	0	0	1	0	0
	100%	74%	14%	4%	2%	1%	1%	2%		1%			1%		
1988	124	106	9	3	3	0	2	1	0	0	0	0	0	0	0
	100%	86%	7%	2%	2%		2%	1%							
1989	130	129	1	0	0	0	0	0	0	0	0	0	0	0	0
	100%	99%	1%												
1990	138	135	1	0	1	1	0	0	0	0	0	0	0	0	0
	100%	97%	1%		1%	1%									
1991	143	135	4	1	0	0	2	1	0	0	0	0	0	0	0
	100%	94%	3%	1%			1%	1%							
1992	164	156	3	0	2	1	0	0	0	0	1	0	1	0	0
	100%	95%	1%		1%	1%					1%		1%		
1993	143	135	8	0	0	0	0	0	0	0	0	0	0	0	0
	100%	94%	6%												
1994	151	139	11	1	0	0	0	0	0	0	0	0	0	0	0
	100%	92%	7%	1%											
1995	158	77	35	13	16	7	7	3	0	0	0	0	0	0	0
	100%	49%	22%	8%	10%	4.5%	4.5%	2%							